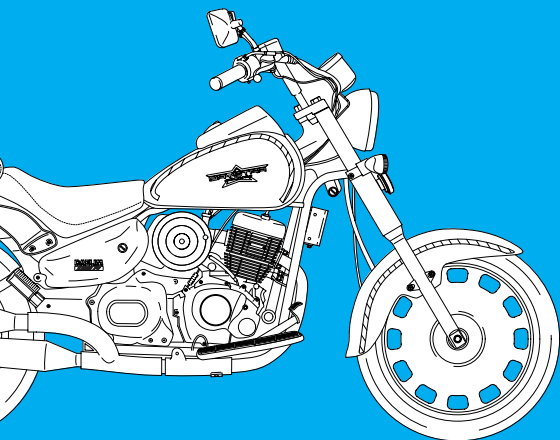
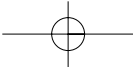


DAELIM

OWNER'S MANUAL

DAYSTAR *Fi*





IMPORTANT NOTICE

WELCOME
Thank you for purchasing an Daelim vehicle. We hope you enjoy safe riding.

OPERATOR AND PASSENGER
This motorcycle is designed to carry the operator and one passenger.

▲ WARNING
Attempting to change the pre-set maximum speed may cause danger and will void the Daelim warranty.

ROAD USE
This motorcycle is designed to be used only on the road.

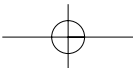
READ THIS OWNER'S MANUAL CAREFULLY
Pay special attention to statements preceded by the following words:

▲ WARNING
Indicates a strong possibility of severe personal injury or death if instructions are not followed.

▲ CAUTION
Indicates a possibility of personal injury or equipment damage if instructions are not followed.

▲ NOTE
Provides helpful information.

This manual is an important and integral part of your vehicle. keep it with your vehicle at all times, even though your vehicle is resold.



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SPECIFICATION

ITEM	DATA	ITEM	DATA
LENGTH×WIDTH×HEIGHT(mm)	2,240×860×1,140	IGNITION SYSTEM	TRANSISTOR
WHEEL BASE(mm)	1,505	BATTERY CAPACITY	12V 10AH / MF TYPE
GROUND CLEARANCE(mm)	135	FUEL CAPACITY(l)	16.8
SEAT HEIGHT(mm)	720	TIRE SIZE	FR. 90 / 90 - 18
DRYWEIGHT(kgf)	147.5		RR. 130 / 90 - 15
PASSENGER	2	SUSPENSION	FR. TELESCOPIC
ENGINE TYPE	OIL COOLED/AIR COOLED 4 STROKE 4VALVE		RR. SINGLE ARM
PISTON DISPLACEMENT(cc)	124.1	BRAKE	FR. HYDRAULIC DISK
BORE AND STROKE(mm)	56.5×49.5		RR. DRUM BRAKE
STARTING SYSTEM	START MOTOR	SPARK PLUG	CR9EH-9
TRANSMISSION TYPE	5 STEPS RETURN	FUSE(A)	30A,15A,

OPERATION INSTRUCTION

This manual describes matters pertaining to correct operation, proper operation and simple maintenance of the vehicle you purchased. To ensure more comfortable and safer operation, please be sure to read this manual carefully prior to operation. The photographs and drawings shown in this manual may differ from those of actual vehicles due to changes in vehicle specifications and modifications made. This vehicle is designed for 2 riders including the operator.

⚠ CAUTION

Do not use polluted gasoline. Otherwise it cause rust inside the fuel tank, and close the supply of fuel to the injector, leading to an improper engine starting or may cause serious damage to engine. Do use genuine oil, then it will protect and extend vehicle life. Warranty does not apply to the motorcycles used in competitions or competitive trials. No motorcycle part may be tampered with, altered, or replaced with parts other than original Daelim spare parts during the warranty period. As far as any defect caused by contaminated gasoline or oil, the warranty will be automatically invalidated.

SAFETY PRECAUTIONS

- Careful driving and the wearing of proper attire and safety equipment are the most important factors in the safe operation of the daystar. Please obey traffic regulations and do not be hurried and careless.
- Many new vehicle owners operate their newly purchased vehicles with great care and attention to safety factors. However, after becoming accustomed to the operations are often discarded, which can lead to accidents. Please don't let this happen to you and always approach the operation of your vehicle with the safety considerations needed. When operating the vehicle, always keep in mind and obey the notes of precaution printed on the "Safety Precaution Label" attached to the vehicle.

- Be sure to wear helmet at all time.
- Be sure to put on gloves at all time.
- Observe the speed regulations.
- Beware of muffler after driving as it is still hot to be burnt. Especially never children touch on it.
- For safety, do not change, alteration or modification the vehicle.
- Regularly conduct specified maintenance inspections.
<Maintenance Inspection Points>
Brakes, Tires, Oil, Lights, Horn, Instruments

BEFORE STARTING VEHICLE

Read user's manual carefully.
 Conduct maintenance checks prior to operation.
 Always maintain vehicle in clean status and carry out specified maintenance checks.
 Be sure to stop engine and stay away from fire when refueling.
 Exhaust gas contains harmful substance such as carbon monoxide. Start engine in well-ventilated places.

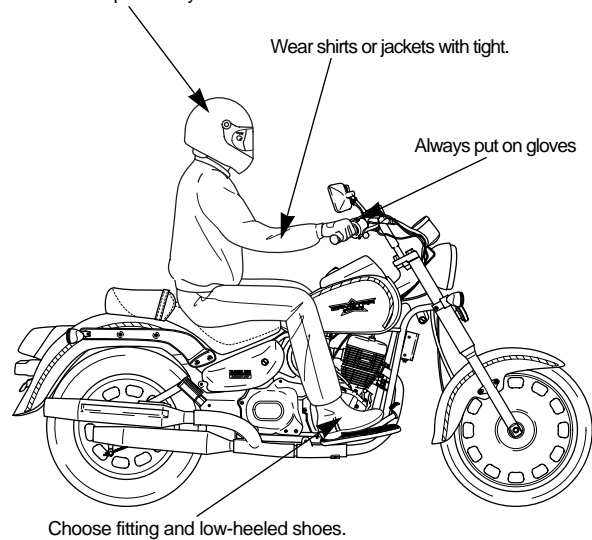
PROPER ATTIRE

Be sure to wear helmet and gloves at all time for safety.
 Wear shirts or jackets with tight one while driving. Otherwise it can get caught in the wheel to cause serious damage by overturn of vehicle.
 Many automobile / motorcycle accidents happen because the automobile driver does not "Look" the motorcyclist.
 Wear bright or reflective clothing.
 Don't ride in another motorist's "Blind spot".
 Be sure to wear dress to catch an eye to avoid any crash from behind.

⚠ WARNING

- Be sure you and your passenger always wear a helmet, eye protection and other protective apparel when you ride.
- Not wearing a helmet increases the chance of serious injury or death in a crash.

Be sure to wear helmet at all time and the helmet chin strap securely fastened.



OPERATION

CARGO

- When carrying cargo, you must keep in mind that operating the vehicle, especially when turning, will be different.
- Make sure not to overload the vehicle with goods as this can make the vehicle unstable during operation.

CAUTION

- Pay attention not to overload goods and fasten it tightly while driving.
- Do not place kind of cloth materials nearby oil tank cap. If the hole in oil tank cap is clogged, oil will not flow freely into the engine which can cause severely engine damage.
- Do not attach large or heavy items (such as a sleeping bag or tent) to the handle bars, fork, or fender. Unstable handling or slow steering response may result.

MODIFICATION

Modification of vehicle structure or function deteriorates manipulability or causes exhaust noise to become louder, shortening the vehicle life. These modifications are not only prohibited by law but also are the acts harmful to other people. Modifications are not covered by warranty.

CAUTION

As far as any defect caused by modifications, the warranty will be automatically invalidated.

ATTACHMENT

Except designated attachment by DAELIM MOTOR CO., LTD., don't attach any extra lighting device, because it may cause an early discharging of battery.

Carefully inspect the accessory to make sure it does not obscure any lights, reduce ground clearance and banking angle, or limit suspension travel, steering travel or control operation.

Do not add electrical equipment that will exceed the motorcycle's electrical system capacity. A blown fuse could cause a dangerous loss of lights or engine power.

This motorcycle was not designed to pull a sidecar or trailer. Handling may be seriously impaired if so equipped.

WARNING

- Improper accessories or modifications can cause a crash in which you can be seriously hurt or killed.
- Follow all instruction in this owner's manual regarding accessories and modifications.

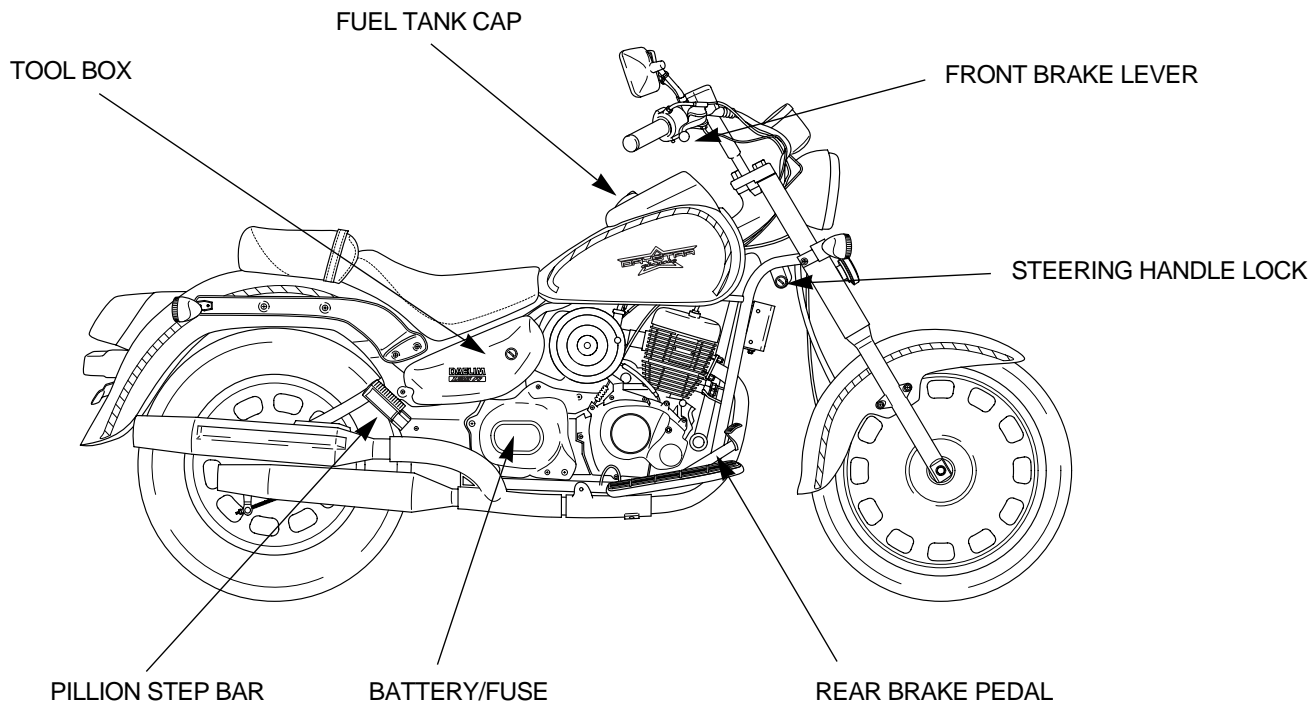
MUFFLER

- Pay particular attention to fellow passenger so that he/she can prevent getting burnt by the hot muffler during travel.

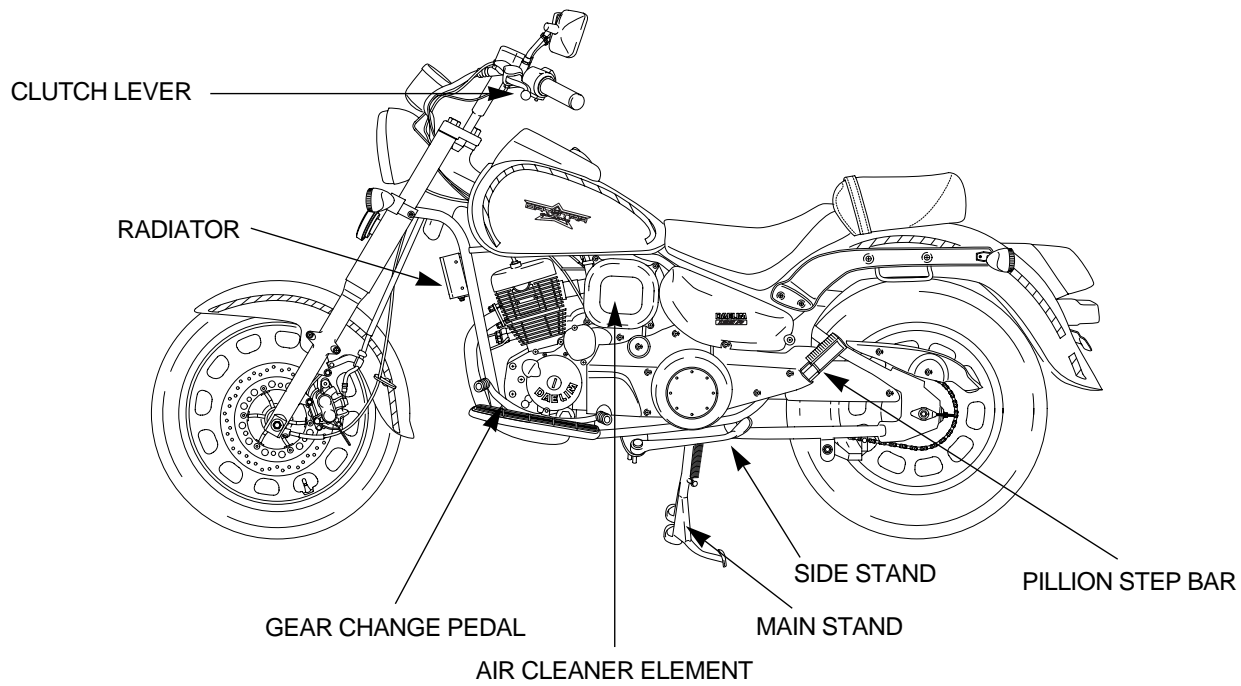
CAUTION

- Beware of muffler after driving as it is still hot to be burnt. Especially never children touch on it. And pay attention to park where pedestrian zone.
- If haystack or vinyl is stuck to the muffler, it might be fired.

TS LOCATION



TS LOCATION



INSTRUMENT CLUSTER READING AND USAGE

SPEEDOMETER

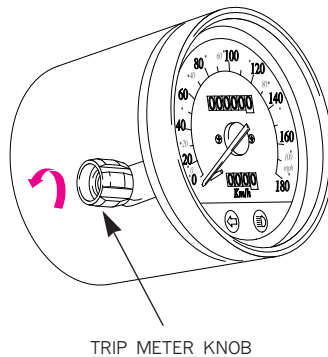
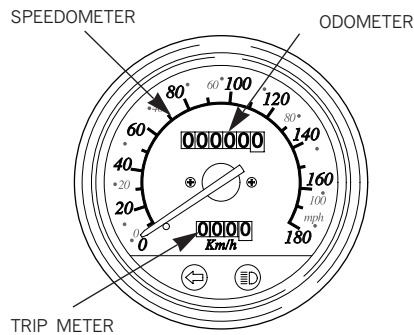
Indicates speed in km/h during travel. Always observe legal speed limits to ensure safe driving.

ODOMETER

Indicates total operating distance in km.

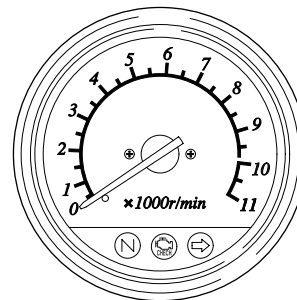
TRIP METER

Indicates travel distance from the point the meter is reset to "0". To reset meter, turn the trip meter knob to the direction of the arrow.



TACHOMETER

Indicates engine rpm.



CAUTION

- As far as any defect caused by modifications, the warranty will be automatically invalidated.

Pay particular attention because sudden engine running or abrupt acceleration in the 1st or 2nd gear may cause the tachometer needle to be in the danger zone (red zone). Danger zone means the engine revolution limit and, if engine is run beyond this danger limit, engine will be damaged.

INDICATOR LAMPS

HEADLIGHT HIGH-BEAM INDICATOR

Turned on when the headlight is in high-beam position.

NEUTRAL INDICATOR

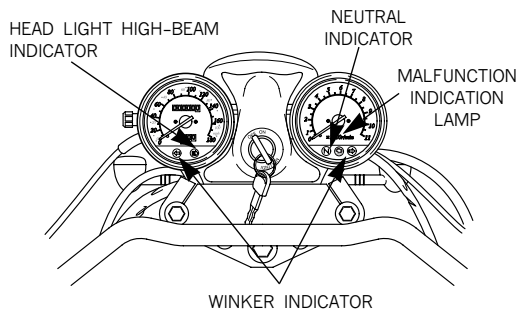
Turned on when the main switch is in "N" position and transmission gear is in neutral position.

WINKER INDICATOR

Flashes when turn signal is flashing.

MIL <MALFUNCTION INDICATION LAMP>

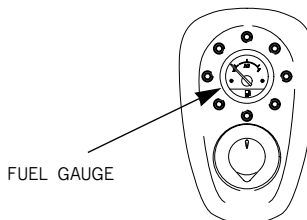
- EMS (Engine Management System) is equipped with a self-diagnosis function in order to ensure that the engine control system is operation normally.
- If this function detects a malfunction in the system, the malfunction indicator lamp immediately operates. It gives the rider that malfunction has occurred in the system.
- Normally, the malfunction indicator lamp illuminates for 3 seconds when the main key is turned on. If the malfunction indicator lamp does not come on under these conditions, the malfunction indicator lamp may be defective.
- After 3 seconds, the malfunction indicator lamp off automatically. However, the MIL blinks continuously, check the EMS system. If you are not able to check the EMS system, contact your dealer.
- The EMS takes fail-safe function, it enables to drive only temporary by starting even on conditioned.



FUEL GAUGE

Indicates amount of gasoline in fuel tank. If needle is within E mark (red zone), immediately fill gasoline.

- Fuel Capacity: 16.8 l
- Reserve fuel capacity: 4.3 l



WARNING

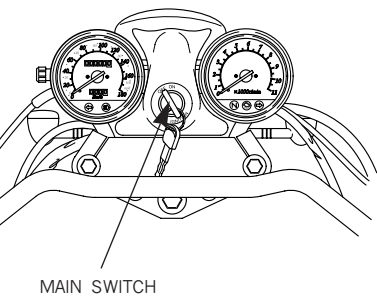
- To avoid running out of fuel, it might cause severe injury due to engine abruptly stop.

MAIN SWITCH OPERATION

MAIN SWITCH

The main switch is used to turn on or turn off the engine.

Function	Function	Key removal
ON	Starts engine. Used to operate vehicle during day or night time, to operate horn, winker, brake lights or head lights.	Cannot be removed
OFF	Stops engine. Cuts off all electrical circuits.	Can be removed






CAUTION


- Do not operate main switch key during operation.
- If the main switch key is placed on "Off" or "Lock" position, all electrical system will not function.
- Never operate the main switch key during travel as it might cause unexpected accidents.
- If it is necessary to remove the main switch key, stop the vehicle first prior to removing.
- Prior to dismounting from the vehicle, make sure to lock the steering wheel and remove key.
- If the key is left in "ON" position without starting engine, battery is discharged.
- Do not use a number of keys together with a metal key holder. The keys and the key holder may cause scratches or other damage to the cover while operating the vehicle. (Recommend cloth or leather key holders)

HEADLIGHT · POSITION LAMP

<TURNING ON HEADLIGHT>

Put main switch key in "ON" position and turn on headlight switch.

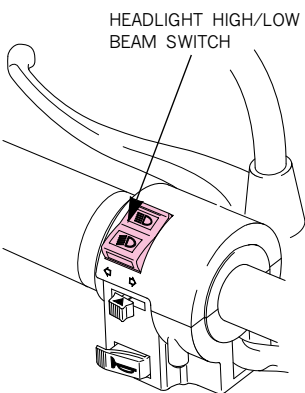
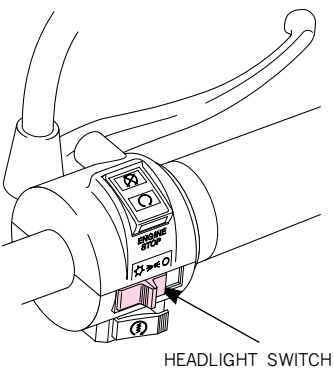
Switch position	Switch position
 (H)	Headlight, position lamp and taillight turned on
 (P)	Position lamp and taillight turned on.
	Light turned off

- Position lamp () advises approaching vehicle of the motor cycle position when operating after sunset. In addition, when the motor cycle is stopped at night or at an intersection, the position lamp advises other vehicles of the motorcycle existence without blinding operators.



<HEADLIGHT HIGH OR LOW BEAM OPERATION>

High beam or low beam can be operated by the use of high/low beam switch.

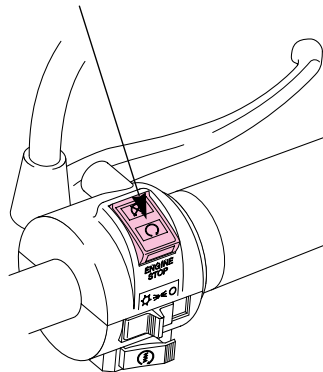
- ≡D (HI) ... Headlight placed on high beam
- ≡D (LO) ... Headlight placed on low beam








ENGINE STOP SWITCH

This switch is the device for immediate engine stop by hand in any emergencies. In normal condition, make sure its position “”(RUN), and do not use on the position of “”(OFF).

ENGINE STOP SWITCH

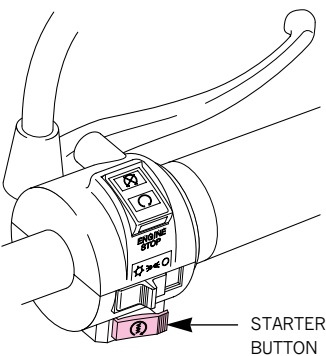


⚠ CAUTION

- Use this engine stop switch in emergencies.
- When this engine stop switch changes as “”(RUN)→“”(OFF)→“”(RUN) during travel, engine cannot operate properly and also it causes unsafety riding. Make sure the engine can be damaged by this kind of misuse.
- When you make engine stop by this switch, the main switch must be in “”(OFF) position. If the key is left in “ON” position without starting engine, battery is discharged.
- If this switch is left in “”(OFF) position, engine cannot be started.

STARTER BUTTON

Starter motor runs while this button is pressed to start engine.



CAUTION

Do not run starter motor continuously. Because the starter motor consumes great amount of power, continuous running of starter motor might cause battery to exhausted.

WINKER SWITCH

Use winker switch when you turn to left or right, or when you change course of travel.

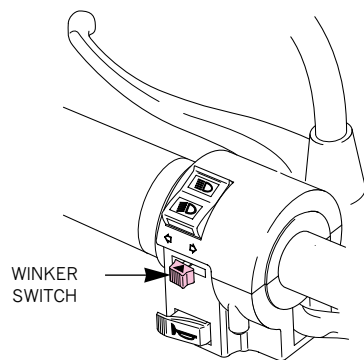
<HOW TO USE>

If this switch is turned on when the main switch is in "ON" status, turn signal is blinking.

To release, turn signal operation, press the winker switch.

⇒ (R) Turn to right

⇐ (L) Turn to left



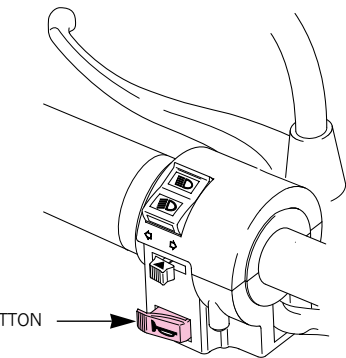
CAUTION

- Using light-bulbs with wrong watts may cause malfunction to the winker switches. Always use light-bulbs with prescribed watts.
- The winker switch does not automatically turn back to its original position after completing the turn. Please set the switch back to its center position after turning. Driving the vehicle with the light on may hinder traffic.

INSTRUMENT USAGE

HORN BUTTON

Horn button is pressed when main switch is in "ON" position, horn is sounded



STEERING WHEEL LOCK

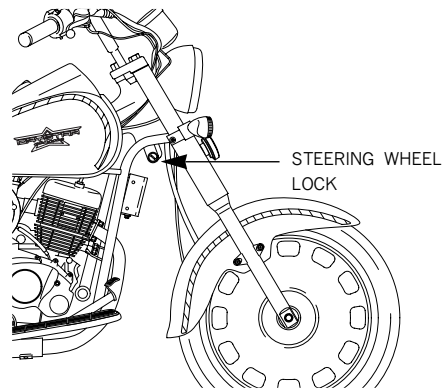
To prevent theft, lock steering wheel when parking the vehicle.

<HOW TO LOCK>

1. Turn the steering wheel to left completely.
2. Insert main switch key.
3. Turn the key 180° to the right.
If the steering wheel cannot be locked, move the steering wheel slightly to right and left while turning the key.
4. Remove the key.

<HOW TO RELEASE>

1. Insert main switch key.
2. Turn the key 180° to the left.
3. Remove key.



⚠ CAUTION

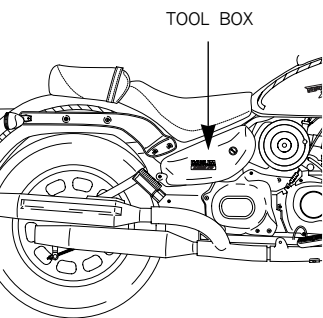
- To make sure steering wheel is locked properly, lightly turn steering wheel to left and right and verify lock.
- Park the vehicle in places free of traffic.
- Prior to operation, turn the steering wheel to left and right to verify if turning angles of left and rights are equal.

TOOL BOX

There is a tool box inside the right front cover. Safeguard tools inside the tool box.

HOW TO USE>

Put the main switch key to open or close the tool box cover.



CAUTION

Put tools inside the tool box, and lock it with O-ring as noise might occur while the vehicle is moving.

FUEL

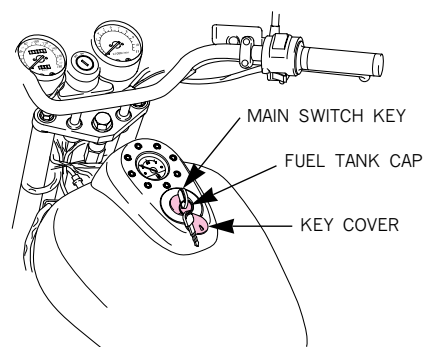
<REFUELELING>

- Open key cover ; insert main switch key ; turn key to right and fuel tank cap is opened.
- Fill gasoline up the bottom of level plate located at the lower side of tank mouth.
- Push the tank cap correctly with hands and remove the main switch key. (If the fuel tank cap is not locked, the main switch key will not be removed)

FUEL CAPACITY : 16.8 l

CAUTION

- Make sure to stop engine and stay away from fire when fueling.
- If gasoline is filled above the level plate bottom, gasoline may overflow.




RECT DRIVING OPERATION

Make sure to check the oil, gasoline, before starting the engine.
 Make sure that the main stand and side stand is in a up-position when starting the engine.
 Make sure that the front wheel is locked when starting the engine.
 Proceed with care for both safety reasons and longer vehicle life.
 Within 1 month(or 1,000km) after purchasing the vehicle, drive moderately avoiding fast starts and fast acceleration.

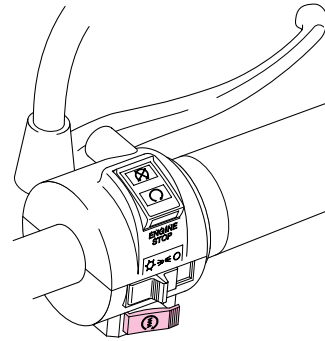
STARTING THE ENGINE

<WHEN ENGINE IS COLD>


1. Verify the steering wheel lock is released.
2. Make sure engine stop switch is in “” (RUN) position
3. Make sure fuel cock lever is in “ON” position.
4. Turn on main switch.
5. Put gear in neutral.
(Verify this with neutral indicator lamp)
6. Press the starter button without rotating the throttle.
7. If engine is not started with throttle grip closed, press starter button and open throttle grip approximately 1/8 to 1/4.
8. Once engine is started, pull and release throttle grip repeatedly to run engine idle until engine is heated.
9. Verify side stand is positively in original position and start slowly.

CAUTION

- Do not press the starter button when the engine is running. this can damage the start motor.
- Keep hold brake lever when starting.

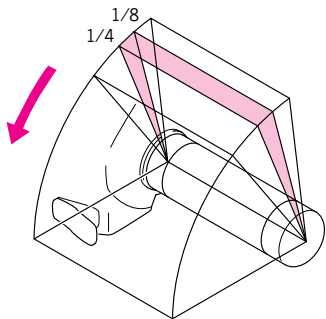


<WHEN ENGINE IS HOT>

1. Verify the steering wheel lock is released.
2. Make sure engine stop switch is in “” (RUN) position.
3. Turn on main switch.
4. Put gear in neutral.(Verify this with neutral indicator lamp)

STARTING THE ENGINE

Close throttle grip and press starter button.
If engine is not started with throttle grip closed, press starter button and open throttle grip approximately 1/8 to 1/4.



CAUTION

- Exhaust gas contains harmful substance such as carbon monoxide. Start engine in well-ventilated places.
- If engine is not started within 3 seconds after starter button is pressed, wait for approximately 10 seconds and retry. This is to recover battery voltage.
- Do not run engine idle unreasonably. This not only wastes fuel but also adversely affects engine.
- If starter button is pressed without disengaging clutch, motorcycle may bring out to fall. Make sure gear is in neutral position or disengage clutch prior to starting engine.

IF ENGINE CANNOT BE STARTED

If engine cannot be started or vehicle does not move, check the followings.

- Is there fuel in fuel tank?
- Are you operating in accordance with the instructions given in owner's manual?
- Is fuse not cut?
- Is starter motor running?
- If starter motor is not running due to battery consumption, charge the battery.
- If the MIL blinks continuously when the main key is on, contact daelim dealer.

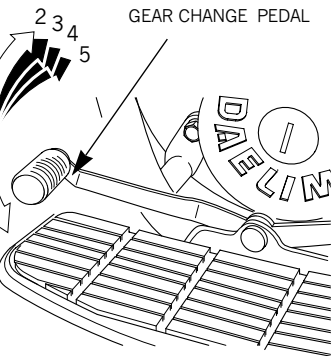
GEAR SHIFTING

Gear is shifted in 5-shift return system as shown on the right side drawing.

- Close throttle grip and hold clutch lever perfectly, and shift gear.
- Touch pedal lightly with foot and shift gear perfectly until you hear "Click" at the pedal. If you apply excessive force when shifting gear, transmission may be damaged.

<GEAR DOWN OPERATION>

Shift gear down when you need to drastically reduce speed such as when you are passing another vehicle, speed can be reduced. If you ride too fast, it adversely affects engine because engine revolution is excessive.



OPERATION

- Make sure side stand is in original position prior to starting vehicle.
- If side stand moves unsatisfactorily, check lubrication state on side stand joint.
- Shift gear adequately according to vehicle speed. The table on the right side shows speed ranges.
- To save fuel and maintain optimum vehicle life, do not accelerate or decelerate speed abruptly.

<BREAK-IN OPERATION>

- For 1month (or 1,000km) after purchasing the vehicle, drive moderately avoiding fast starts and fast acceleration.
- Maintain engine revolution at a level less than 6,000rpm for first 1,000km to break in vehicle. If vehicle is broken in as above, it will extend vehicle life.

CAUTION

- Always start in the 1st gear, and start carefully as slow as possible.
- If you hear abnormal noise during travel, contact authorized maintenance shop immediately for inspection and necessary action.
- Maintain legal speed limits.

HOW TO USE BRAKE

Apply brakes on front wheel and rear wheel simultaneously.
Avoid unnecessary abrupt braking.

⚠ CAUTION

If you apply brakes only on front wheel or rear wheel, vehicle may slide off sideways and fall.

If you apply brakes abruptly during travel in rain or on wet road, tires slide off and may cause accidents. Reduce speed and apply brake cautiously.

Avoid repeated brake operation as it may cause brake temperature to rise, leading to braking effect deterioration.

<ENGINE BRAKE>

If you turn throttle grip in reverse, engine brake functions and, if you need stronger braking, shift gear down from 4th to 3rd and so forth. When you travel on a long descent or on a sharp descent, use intermittent braking technique and engine brake simultaneously.

⚠ CAUTION

- Do not shift to lower gear while traveling at an excessive speed as it may suddenly increase the engine speed, adversely affect the engine and transmission, and cause the rear part of the vehicle to be shaken.

PARKING

- Put gear in neutral and put main switch to “OFF” position to stop engine.
- Put fuel cock to “OFF” position.
- Put vehicle on main stand and park on level ground in places free of traffic. If you park vehicle on an uneven ground, vehicle may fall.

⚠ CAUTION

- Select a safe place free of traffic and park vehicle.
- Muffler is hot. Park vehicle in places where there is no danger of people making contact with vehicle.

INSPECTIONS BEFORE OPERATION

WORKING WHEN SIDE STAND IS USED>

Vehicle on level ground and park with steering wheel turned to left.

Vehicle is parked in the following conditions, vehicle may fall to side.

Vehicle is parked with the steering wheel turned to right, or if parked on a slope, sandy places, uneven ground or soft ground, vehicle may fall.

It is necessary to park in an unstable position under unavoidable situation, take sufficient safety measures to prevent vehicle from falling or moving.

Self inspect the motorcycle and have regular maintenance inspections for increased safety and the prevention of accidents.

Self inspections before operation should be performed on a daily basis prior to operating the vehicle.

- Inspections of areas of concern.
- Fuel check
- Brake inspection
- Tire inspection
- Throttle grip Inspection
- Clutch inspection.
- Drive chain inspection.
- Engine oil inspection.
- Lights and winker inspection.
- Back mirror inspection.
- License plate inspection.

CAUTION

Observe safety rules when conducting inspections.

- Exhaust gas contains harmful substance such as carbon monoxide. Do not carry out inspections on vehicle in closed places, or in poorly ventilated places, with engine running.
- Conduct inspections on flat, solid ground with the stand erected.
- Be careful of burns when conducting inspections immediately after engine is stopped because the engine and muffler are hot.
- Stop engine and remove the key prior to the vehicle maintenance service.
- If you are unable to correct trouble even after you make adjustment or correction, contact authorized maintenance shops, dealers or designated repair shops for necessary inspection and repairs.

PECTION OF CONCERNED AREA

k areas which caused for concern
last operating the vehicle.

EL CHECK

k gasoline to see if there is a
ient amount of gasoline to reach your
ation.
to page 16 for refueling.

BRAKES

The front brake is the hydraulic disk type,
and the rear brake is the drum brake type.
As the brake pad wear, the brake fluid
level drops.
There are no adjustments to perform, but
fluid level and pad wear must be inspected
periodically.
The system must be inspected frequently
to ensure there are no fluid leaks.

[FRONT WHEEL]

<BRAKE LEVER FREE PLAY>

Lightly squeeze the brake levers until
tension is felt to check for an appropriate
amount of free play. No free play in the
brake levers or overly loose brake levers
are indication of a problem in the brake
system.

BRAKE LEVER FREE PLAY :
10~20mm

<BRAKE FLUID LEVEL>

⚠ WARNING

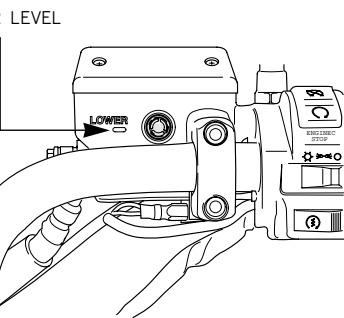
- Brake fluid may cause irritation.
Avoid contact with skin or eyes. In
case of contact, flush thoroughly with
water and call a doctor if your eyes
were exposed.
- KEEP OUT OF REACH OF CHILDREN.

Put main stand in upright position on a flat
ground and operate steel wheel, and check
fluid when the top of master cylinder cap
is level.

Check fluid level to see if it is below lower
level.

If fluid significantly low, it may indicate
fluid leakage on brake system. If this
happens, check fluid leaks or brake
system. If this happens, check fluid leaks
or damage on system and inspect joints
and clamps for looseness.

In addition, check hose and pipe protective
to see if they make contact with other
when you make left or right turn due
rotation during travel.



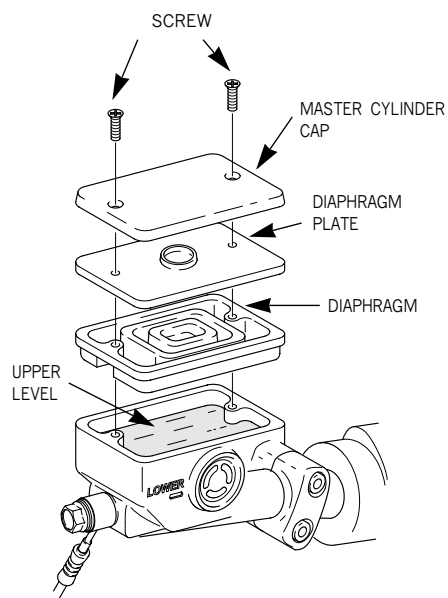
CAUTION

Brake is an important part which
protects your life. Make sure to
inspect brake prior to daily use.

<REPLENISHING BRAKE FLUID>

- Move steering wheel and set the top of
reserve tank level.
- Clean dust and other foreign matter
from around master cylinder and take
caution not to allow foreign matter to
fall inside master cylinder
- Open cap screw and remove diaphragm.
- Replenish recommended brake fluid to
upper level inside master cylinder.
Tighten cap accurately, paying attention
to the direction of diaphragm
assembling, and avoid ingress of foreign
matter.

**RECOMMENDED BRAKE FLUID IS
DOT 3**



⚠ CAUTION

Do not fill brake fluid above upper level as it may cause brake fluid to leak outside.

Exercise full caution, when replenishing brake fluid, not to allow dust or water to mix inside master cylinder.

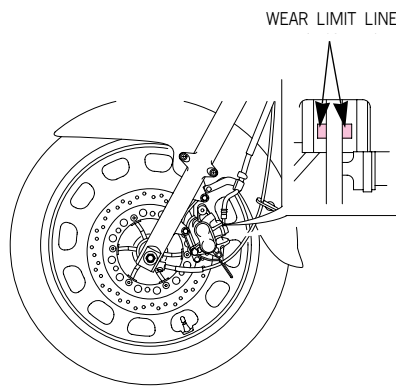
If the amount of brake fluid decreases considerably, it is an indication of brake system trouble.

To prevent occurrence of chemical change, do not use brake fluid of different manufacturer.

Do not let brake fluid contact vehicle parts because it causes damage to painted parts.

<BRAKE PAD INSPECTION>

Operate brake and, if the brake pad wear limit line reaches the brake disc side, it indicates the pad has reached wear limit.



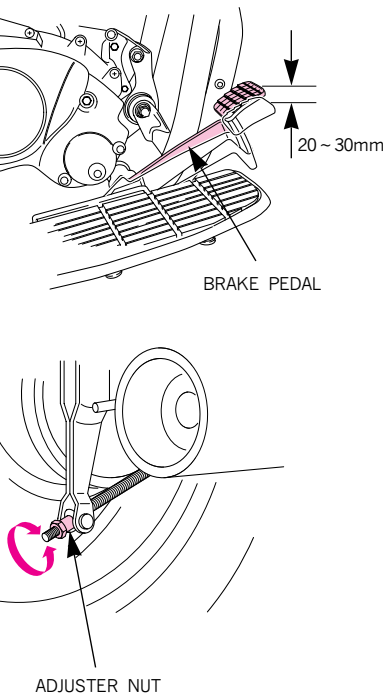
[REAR WHEEL]

Push the brake pedal with hands for resistance and check if the pedal movement appropriate.

If brake pedal movement is inappropriate, adjust the pedal free play using the rear wheel brake adjuster nut.

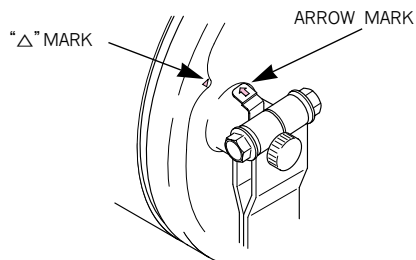
- To adjust pedal free play, turn adjuster nut. After adjustment, push the brake pedal with hands until you feel resistance and verify the pedal free play is within prescribed level.

BRAKE PEDAL FREE PLAY :
20~30mm



<BRAKE SHOE INSPECTION>

Push brake pedal completely and, if the brake arm arrow and the “△” on brake panel match each other, it indicates brake shoe has reached its life limit.



⚠ CAUTION

- In case brake pad or shoe reaches the wear limit line, replace it immediately.
Worn brake pad can cause an accident due to lack of power.

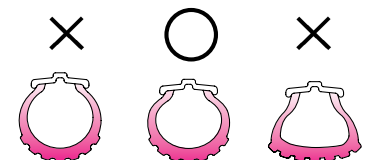
TIRES

<TIRE PRESSURE CHECK>

Check for an appropriate level of air pressure by examining how the tire sits on the ground. If you notice any abnormalities in the shape of the tire with regard to the area contacting the ground, use a tire gauge to check tire pressure and adjust the tire pressure to the appropriate level.

<TIRE PRESSURE>

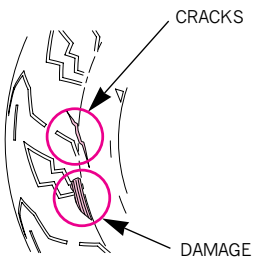
SIZE	FRONT	90/90-18	
	REAR	130/90-15	
TIRE PRESSURE (kg/cm ²)	1 PERSON RIDING	FRONT	2.00
		REAR	2.00
	2 PERSON RIDING	FRONT	2.00
		REAR	2.00



TIRES

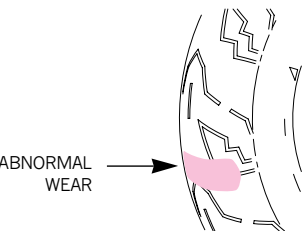
<CRACKS/DAMAGE>

Check tire tread and sides for cracks and damage.



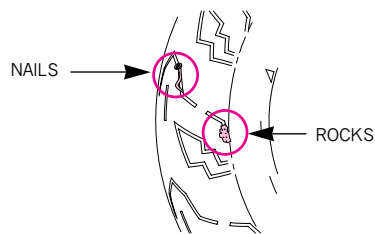
<NORMAL WEAR>

Check tire tread for signs of abnormal



<FOREIGN MATTER>

Check tire tread and sides for nails, rocks, etc. That might have become wedged in the tire.

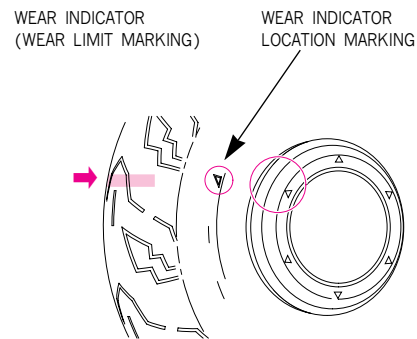


CAUTION

- If air pressure is inadequate or if there are cracks, damage or abnormal wear on tires, it may cause trembling steering wheel and flat tire.
- This vehicle is equipped with tubeless tires. If you have flat tires, please contact authorised maintenance shops for inspection.

<TREAD DEPTH>

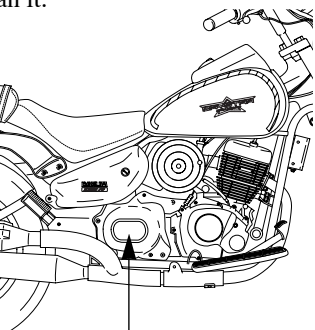
- Check the wear indicator(wear limit marking) to see if there is an insufficient amount of tread remaining.
- If the indicators are visible, replace tire with a new one.



BATTERY

BATTERY INSPECTION>

Remove the four flange bolts, and take off the right lower cover. you can find the battery. If the battery terminal is corroded or in rust, separate battery and clean it.



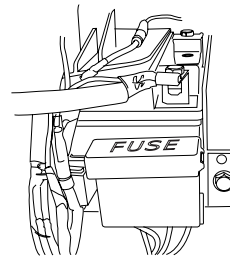
RIGHT LOWER COVER

If the battery terminal is in rust with white powder should be cleaned with warm water.

In case of serious rust of battery terminal, disconnect the battery cord and grind it with wire brush or sandpaper.

CAUTION

- Turn the ignition switch OFF before disconnecting the terminal from the battery. Disconnect the negative(-) terminal lead from the battery first. When connecting, connect the positive(+) terminal lead first. If you work in reverse order, short circuit will occur resulting in fire.
- Make sure that terminals do not contact with other adjacent parts when handling (+), (-) terminals. Contact with other parts may cause spark resulting in electrical equipment malfunction, fire and electric shock.
- Do not apply excessive impact. When handling the battery, stay away from flammable materials.
- If the electrolyte contact with terminal, it will be corroded earlier.
- The battery is shield type, so do not disassemble the pouring plug.
- When not using vehicle during a long time, take off the battery from the vehicle to keep from self-discharge and electric discharge. Put the battery in a well ventilated place after charging fully. In case it isn't available to take battery off from the vehicle, disconnect (-) terminal.



CAUTION

- When using the battery without cover, (+), (-) terminals may be connected to cause short circuit resulting in fire. When handling the battery, stay away from flammable materials.
- Your battery is a maintenance-free type so check or refilling of electrolyte will not be required. If there is any abnormal, contact to Daelim service center.
- If you reform the battery for car, battery will be improperly installed to cause short circuit resulting in fire.
- If the electrolyte gets into your eyes or on skin, it'll cause a serious injury.
- Do not discard the battery other than specified place. It will bring environmental contamination, and be brought under the law

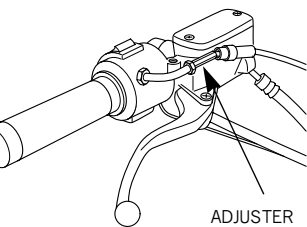
THROTTLE GRIP

Check for smooth rotation of the throttle grip from the fully open to the fully closed position at both full steering positions.

Measure the throttle grip free play at the throttle grip flange.

6 mm

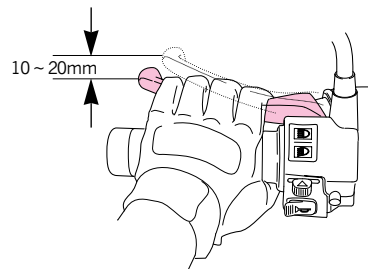
adjust the free play, turn the adjuster.



CLUTCH

<LEVER FREE PLAY INSPECTION>

Pull clutch lever until you feel resistance, and using a graduated ruler, check the lever end free play to verify it is within prescribed level.



<CLUTCH OPERATION>

- When engine is idling, pull clutch lever all the way and see if there is abnormal noise or if you feel unusual heaviness.
- Slowly release clutch lever and start. Check at this time to see if clutch is engaged smoothly without slipping.

<CLUTCH LEVER ADJUSTMENT>

Adjust lever free play by using the clutch cable's clutch lever side or clutch side adjuster.

- To make major adjustment, loosen the clutch side lock nut and adjust by operating the adjuster.
- For fine adjustment, loosen the clutch lever side lock nut and turn adjuster.
- After adjusting, tighten lock nut. After adjustment is completed, pull clutch lever with hands until you feel resistance and verify the lever free play is within prescribed level.

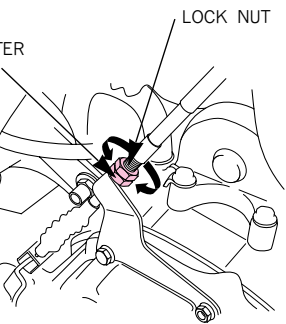
CLUTCH LEVER FREE PLAY:

10~20mm

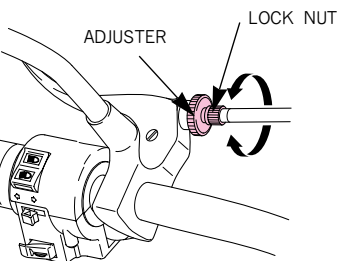
⚠ CAUTION

- Upon completion of adjustment, start engine and verify gear change pedal is operating smoothly.

MAJOR ADJUSTMENT



FINE ADJUSTMENT



DRIVE CHAIN

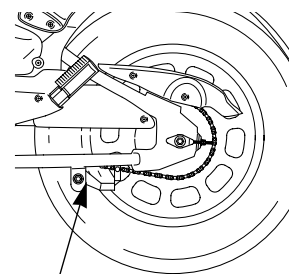
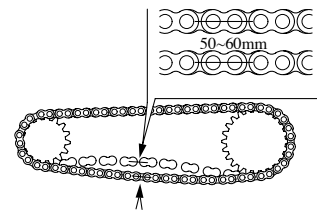
- The service life of drive chain is dependent upon proper lubrication and adjustment. Poor maintenance can cause premature wear or damage to the drive chain and sprocket.
- The drive chain should be checked and lubricated as part of the Pre-ride Inspection.
- Under severe usage, or when the motorcycle is ridden in unusually dusty or muddy areas, more frequent maintenance will be necessary.

<INSPECTION>

1. Turn the engine off, put vehicle in upright position on the main stand and shift the transmission into neutral.
2. Remove the chain tensioner.

3. Move the position of chain tensioner roller up and down with hands to check if the chain free play is within recommended range.

OPTIMA FREE PLAY : 50~60 mm



CHAIN TENSIONER ROLLER

DRIVE CHAIN

Rotate the rear wheel slowly and inspect the drive chain and sprockets for any of the following conditions :

DRIVE CHAIN

Damaged rollers
Loose Pins
Dry or Rusted Link
Kinked or Binding Link
Excessive Wear
Improper Adjustment
Missing O-ring

ROCKETS

Excessively Worn Teeth
Broken or Damaged Teeth

A drive chain with damaged rollers, loose pins or missing O-ring must be replaced.

A chain which appears dry or shows signs of rust, requires supplementary lubrication.

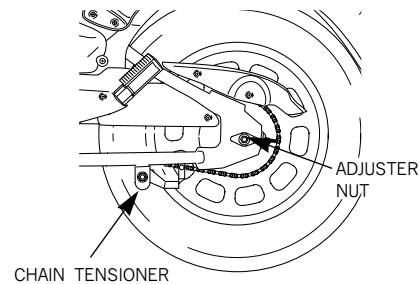
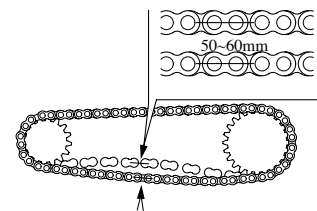
<ADJUSTMENT>

- Drive chain slack should be checked and adjusted, if necessary, every 1,000km.
- When operated at sustained high speeds or under conditions of frequent rapid acceleration, the chain may require more frequent adjustment.

1. Place the motorcycle on its side stand with the transmission in neutral and the ignition switch off.
2. Remove the chain tensioner.
3. Loose the axle nut.
4. Loose the lock nuts on both sides of the swingarm.
5. Turn both adjusting nuts an equal number of turns until the correct drive chain slack is obtained. Turn the adjusting nuts clockwise to tighten the chain or counter clockwise to provide more slack.

Rotate the rear wheel and recheck slack at other section of the chain.

OPTIMA FREE PLAY : 50~60 mm



6. Tighten the axle nut to specified torque.

AXLE NUT TORQUE : 6.0~8.0 kgf · m

7. Tighten the adjusting nuts lightly, then tighten the lock nuts by holding the adjusting nuts with a spanner.
8. Install the chain tensioner.

⚠ WARNING

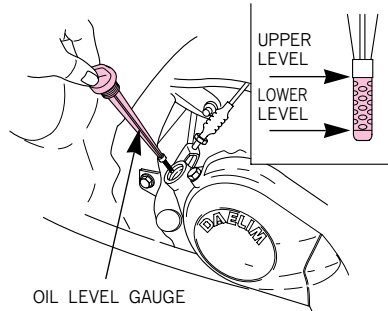
If a torque wrench is not used for this installation, see your authorized dealer as soon as possible to verify proper assembly.

⚠ CAUTION

If a torque wrench is not used for this installation, see your authorized dealer as soon as possible to verify proper assembly. Make sure the right and left chain adjuster graduations are set in the same position. After adjusting chain, check the rear brake pedal free play. New motorcycle adapts endless-type drive chain. (end-type for after-sales service purpose) After once disassembling chain, chain clip can be accidentally removed, so change new one after disassembling chain even once.

ENGINE OIL LEVEL CHECK

- Put vehicle in upright position on flat ground and check engine oil level and degree of pollution.
- Run engine idle for approximately 2~3 minutes on flat ground and stop engine. Approximately 2~3 minutes thereafter, put vehicle in upright position and check engine oil and verify the oil level is between the upper and lower level of oil level gauge.
- Insert oil level gauge, without locking, and check oil level after removing oil gauge.
- If the oil level is near lower level, replenish oil to upper level.



CHANGING ENGINE OIL

If engine oil is polluted, it seriously affects the engine life span. Maintain appropriate level of oil, use correct type of oil and observe oil exchange period.

- Stand vehicle on the main stand on level ground and run engine idle (warm up) for approximately 2-3 minutes.
- Stop engine and place a container under the engine. Remove oil level gauge and drain bolt.
- Clean oil filter screen.
- Check the condition of oil filter screen seal rubber and, O-ring.
- Close oil filter screen, spring, and oil drain bolt, and replenish oil up to the upper level of the oil level gauge.

OIL CAPACITY: 1.2 l

⚠ WARNING

- Be sure to keep oil away from children and pets. Dispose of used oil properly.

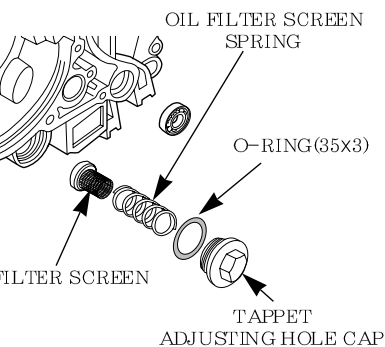
CHANGING ENGINE OIL

COMMENDED OIL>

If oil sold on markets or privately-manufactured oil(low-grade) is used, engine life is adversely affected, and the privilege of warranty repairs cannot be guaranteed.



Service classification : SE or SH
Viscosity : SAE10W-40



⚠ CAUTION

- If you change engine oil immediately after engine is stopped, be careful of burns because the engine, muffler and engine oil are still hot.
- Exercise caution not to allow dust or other foreign matter to flow in when refilling engine oil. If oil overflows, wipe off oil clean.
- If oil level is lower or higher than prescribed level, engine is adversely affected.
- Do not mix oil with those of different manufacturers or grade, or do not use low-quality oil as it may cause deterioration of oil, leading to accidents.
- Clean the oil filter screen with fresh cleaning oil every 4,000km.
- Be careful not to lose the oil filter screen spring when assembling the oil drain bolts.

LIGHTS AND WINKER

[HEAD LIGHT, TAIL LIGHT]

Start the engine and make sure the lights turn on. Also check to see if the lights are damaged or if there is dirt on them.

[BRAKE LIGHT CHECK]

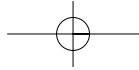
Turn the main switch to ON.

While separately operating the front and rear brakes, check to see if the brake light turns on. Also check to see if there is any damage to the lens or if there is dirt on the brake light.

[WINKER CHECK]

Turn the main switch to ON.

Check to see if all the winker in the front and rear of the vehicle(including left and right sides) are flashing properly, At the same time, check to make sure that the automatic sound signal of the winker is working. Check also to see if any of the lens are damaged or dirty.



MAINTENANCE

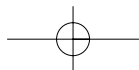
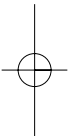
CHECK MIRROR

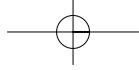
Sit squarely on the seat and check to see if you have a good view behind the vehicle by looking at the rear view mirrors. Also check for dirt and damage on the rear view mirrors.

CHECK LICENSE PLATE

Check to see if there is any dirt or damage on the license plate.
Check to see if the license plate is properly secured to the vehicle.

- The Required Maintenance Schedule specifies how often you should have your motorcycle serviced, and what things need attention.
It is essential that your motorcycle be serviced as scheduled to retain its high level of safety, dependability, and emission control performance.
- These instructions are based on the assumption that the motorcycle will be used exclusively for its designed purpose. Sustained high speed operation, or operation in unusually wet or dusty conditions, will require more frequent service than specified in the MAINTENANCE SCHEDULE.
Consult your authorized Daelim dealer for recommendations applicable to your individual needs and use.

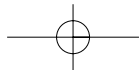
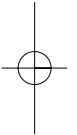


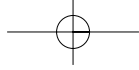


MAINTENANCE SCHEDULE

Perform the Self Inspections Before Operation at each scheduled maintenance period.
 INSPECT AND, CLEAN, ADJUST, LUBRICATE OR REPLACE IF NECESSARY
 REPLACE L: LUBRICATE C: CLEAN

ITEM \ FREQUENCY		ODOMETER READING(NOTE 1)					REMARK
		× 1,000Km	1	4	8	12	
		MONTH		6	12	18	
★	FUEL LINE		I	I	I	I	
★	FUEL FILTER		R	R	R	R	
★	THROTTLE OPERATION		I	I	I	I	
	AIR CLEANER			C	C	C	NOTE (2)
	SPARK PLUG			I	R	I	
★	VALVE CLEARANCE		I	I	I	I	
★	ENGINE OIL		R	R	R	R	
★	ENGINE OIL FILTER		R	R	R	R	
	DRIVE CHAIN		Every 1,000 : I and L				

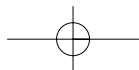




FREQUENCY ITEM		ODOMETER READING(NOTE 1)					REMARK
		× 1,000Km	1	4	8	12	
		MONTH		6	12	18	
★	BRAKE FLUID			I	I	I	NOTE (3)
★	BRAKE SHOE / PAD WEAR			I	I	I	
	BRAKE SYSTEM		I	I	I	I	
★	BRAKE STOP SWITCH			I	I	I	
★	HEADLIGHT ADJUSTMENT			I	I	I	
★	SUSPENSION			I	I	I	
	CLUTCH		I	I	I	I	
	SIDE STAND			I	I	I	
★	BOLTS, NUTS, FASTENERS		I		I		
★	WHEELS / TIRES			I	I	I	
★	STEERING HANDLE BEARING		I		I		

If you do not have the appropriate tools or information to conduct maintenance, or if you feel you are not capable to perform maintenance on this vehicle, contact authorized dealers or repair shops for maintenance and repairs.
To ensure safety, inspections and maintenance of these parts must be carried out by dealers, or repair centers.

NOTES : (1) At higher odometer readings, repeat at the frequency interval established here.
(2) Service more frequently when riding in unusually wet or dusty areas.
(3) Replace every 2 years, or at indicated odometer interval, whichever comes first. Replacement requires mechanical skill.



MAINTENANCE PRECAUTIONS

Following is an explanation of correct operation methods, cleaning and parts replacement. Please always refer to this manual when wanting to inspect or repair your motorcycle.

▲ WARNING

If your motorcycle is overturned or involved in a collision, inspect control levers, cables, brake hoses, shifters, accessories, and other vital parts for damage. Do not ride the motorcycle if damage impairs safe operation. Have your authorized dealer inspect the major components, including frame, suspension and steering parts, for misalignment and damage that you may not be able to detect.

Use new, genuine Daelim parts or their equivalent for maintenance and repair. Parts which are not of equivalent quality may impair the safety of your motorcycle and the effective operation of the emission control systems.

▲ CAUTION

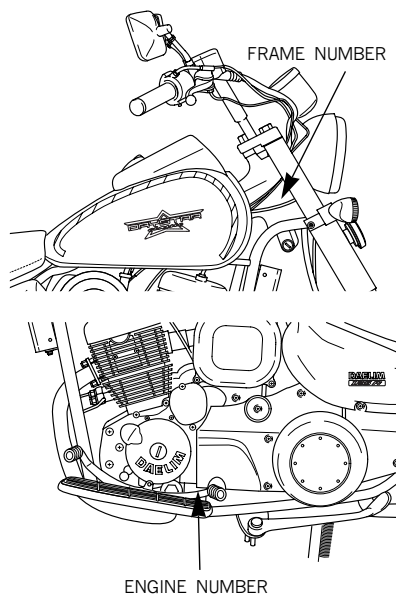
- Always observe safety rules when performing maintenance on the vehicle.
- Choose a flat surface and make sure the main stand is in a secure down position.
- Use correct tools.
- Conduct engine maintenance with the engine key out of the ignition.
- Be careful around the engine and muffler when performing maintenance as these areas can become extremely hot.
- After self maintenance, the waste material must be packed in the specified container and entrusted disposal to the authorized disposal company.
- Exhaust gas contains harmful substance such as carbon monoxide.

Do not carry out inspections on vehicle in closed place, or in poorly ventilated places, with engine running.

FRAME AND ENGINE NUMBERS

The frame and engine numbers are needed when registering motorcycle or when ordering parts.

- Frame number is stamped on the right side of steering head.
- Engine number is stamped on left crank case.



AIR CLEANER ELEMENT

INSPECTION>

This vehicle is equipped with viscous type air cleaner element containing oil. The element cannot be cleaned. Replace element after each operation of 1000km.

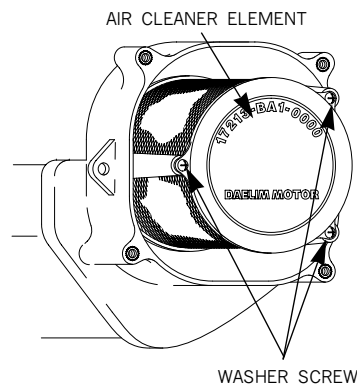
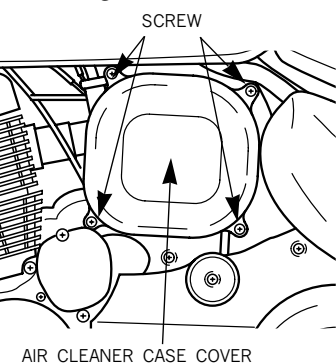
DISASSEMBLING>

Loosen four screw and remove air cleaner case cover.

Loosen four washer screw and air cleaner element.

ASSEMBLING>

Assemble in the opposite order of disassembling.



CAUTION

- If air cleaner element is inadequately assembled, dust and other foreign matters are absorbed directly into the element, inducing cylinder wear or output deterioration and adversely affecting engine durability. Assemble correctly.
- When cleaning vehicle, be careful not to allow water to get into air cleaner. If water gets inside air cleaner, it causes inefficient engine starting.

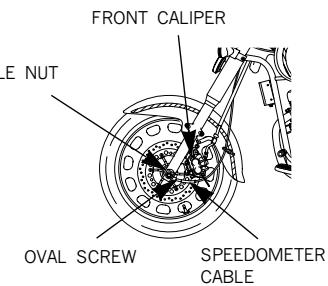
WHEEL REMOVAL

FRONT WHEEL REMOVAL

Raise the front wheel off the ground by placing a support block under the engine.

Loosen the oval screw and remove the speedometer cable.

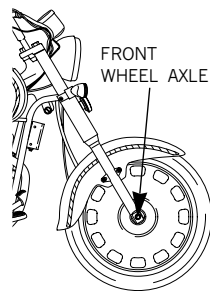
Remove the front caliper assembly from the fork by removing the fixing bolts.



CAUTION

Do not operate brake lever after the front wheel is removed. It will make wheel assembling difficult.

- ④ Loosen the axle nut.
- ⑤ Withdraw the front wheel axle and remove the front wheel.



- ⑥ Install in the reverse order of removal.

CAUTION

- When installing the wheel, carefully fit the left brake disk between the brake pads to avoid damaging the pads.

- Fit the caliper over the disc, taking care not to damage the brake pads. Install the caliper fixing bolts, and tighten to a torque of : **2.7kgf · m**

- Tighten the front axle nut to the specified torque.

FRONT AXLE NUT TORQUE :

5.0~7.0kgf · m

- ⑦ After assembling, operate brake for a number of times and see if wheel is turning smoothly without getting interruption.

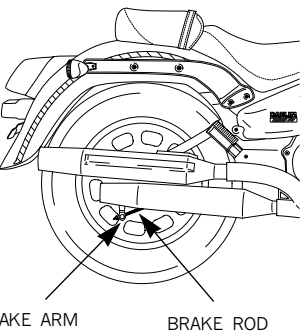
WARNING

- If a torque wrench was not used for installation, see your authorized dealer as soon as possible to verify proper assembly.

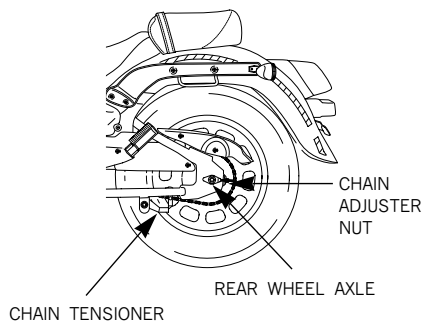
Improper assembly may lead to loss of braking capacity.

[REAR WHEEL REMOVAL]

Set vehicle on main stand in upright position on level ground.
Loosen the rear brake adjuster nut and remove the brake rod.



Remove the chain tensioner.
Loosen the chain adjuster nut.
Loosen the rear wheel axle nut and remove the rear wheel axle and the rear wheel.



⑥ Install in the reverse order of removal.

REAR AXLE NUT TORQUE :
6.0~8.0 kgf · m

- After installing the wheel, apply the brake several times and then check if the wheel rotates freely. Recheck the wheel if the brake drags or if the wheel does not rotate freely.

⚠ WARNING

- If a torque wrench was not used for installation, see your authorized dealer as soon as possible to verify proper assembly.
Improper assembly may lead to loss of braking capacity.

BULB REPLACEMENT

Be sure to turn the ignition switch OFF when replacing the bulb.

Do not use bulbs other than that specified.

After installing a new bulb, check that the light operates properly.

⚠ WARNING

The light bulb becomes very hot while the light is ON, and remain hot for a while after it is turned OFF. Be sure to let it cool down before servicing.

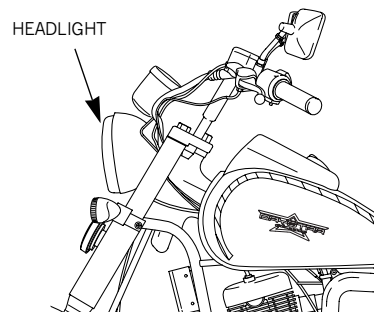
⚠ CAUTION

Do not put finger prints on the headlight bulb, as they may create hot spots on the bulb and cause it to break. Wear clean gloves while replacing the bulb.

If you touch the bulb with your bare hands, clean it with a cloth moistened with alcohol to prevent its early failure.

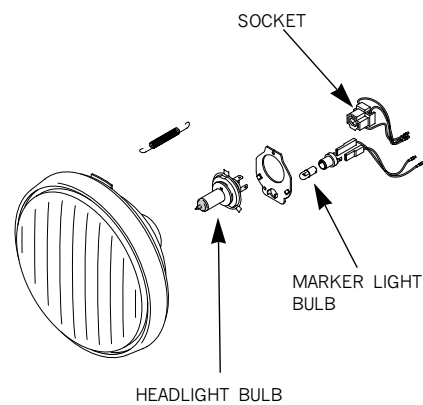
[HEADLIGHT BULB]

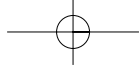
- ① Loosen the washer screw and remove the headlight.



- ② Pull off the socket without turning.
- ③ Loosen the spring and remove the headlight bulb.
- ④ Install a new bulb in the reverse order of removal.

HEADLIGHT BULB : 12V 60/ 55W

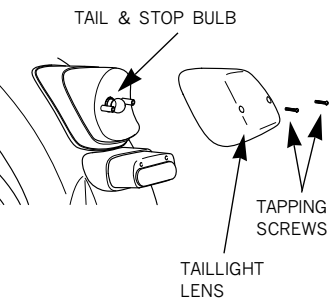




[TAIL/STOPLIGHT BULB]

Loosen the tapping screw and remove the taillight lens.
Slightly press down on the bulb and turn it counterclockwise.
Install a new bulb in the reverse order of removal.

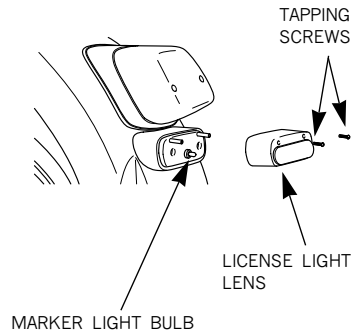
TAIL/STOPLIGHT BULB: 12V 21/5W



[LICENSE LIGHT BULB]

- ① Loosen the tapping screw and remove the license light lens.
- ② Slightly press down on the bulb and turn it counterclockwise.
- ③ Install a new bulb in the reverse order of removal.

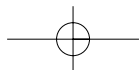
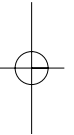
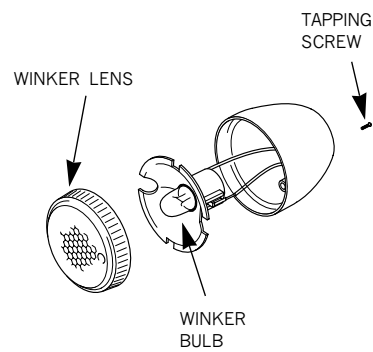
LICENSE LIGHT BULB: 12V 5W



[FRONT/REAR WINKER BULB]

- ① Loosen the tapping screw and remove the winker lens.
- ② Slightly press down on the bulb and turn it counterclockwise.
- ③ Install a new bulb in the reverse order of removal.

WINKER BULB : 12V 10W



SPARK PLUG

If the electrode is stained or the plug gap is not satisfactory, a satisfactory spark is not produced. Clean the plug and make adjustment. To remove the spark plug cap, turn it around the plug. To remove the plug, use a plug wrench. To clean the plug, use a plug cleaner. To check the electrode for wear and corrosion, use a wire gauge. If the center of the electrode became round, replace the electrode. To measure the spark plug gap using a wire gauge.

PLUG GAP: 0.8-0.9mm

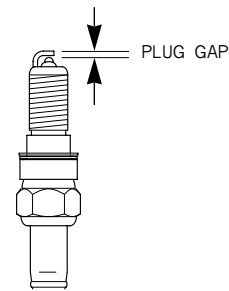
Tighten with hands until the plug washer touches cylinder head.

STANDARD PLUG: CR9EH-9

When a new plug is installed, turn 1/2 and tighten using a plug wrench. When the plug is reused, turn 1/3~1/4 and tighten.

CAUTION

- If a plug of different maker or different heat value is used, it causes unsatisfactory engine starting, inadequate engine revolution and output deterioration.
- The spark plug must be securely tightened. An improperly tightened plug can become very hot and possibly damage the engine.
- To install a spark plug, turn it in as far as possible with your fingers, then tighten it with a wrench. Do not overtighten or cross thread the spark plug or the aluminum threads of the cylinder head will be damaged. Do not allow contaminants to enter the engine through the spark plug hole when the plug is removed.



<DEALING WITH POOR STARTING>

When the starter doesn't work during driving in winter times or in a repeated short distance, use the suitable spark plug for this driving condition.

Poor starting may happen when nonstop driving in low speed, even though we produce standard plug.

In case the starter isn't working well in driving repeatedly in a short distance or in an area with many traffic signals, use the CR9EH-9

FUSE REPLACEMENT

Turn off the main switch to see if the fuse is severed. If the fuse is severed, exchange the fuse into a fuse with same capacity. Remove the four flange bolts, and take off the right lower cover.

The fuse is installed in fuse box around the battery.

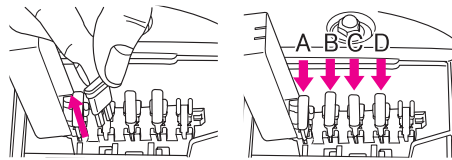
To change a fuse, first take off fuse cover. Then, remove the disconnected fuse, and insert the reserved fuse with same capacity.

⚠ WARNING

Never use a fuse with a different capacity from that specified. Serious damage to the electrical system or a fire may result, causing a dangerous loss of lights or engine power.

- If the fuse immediately becomes severed after being changed with the new one, check another problem of the electric system. contact to Daelim service center.

<DISASSEMBLY> <ASSEMBLY>



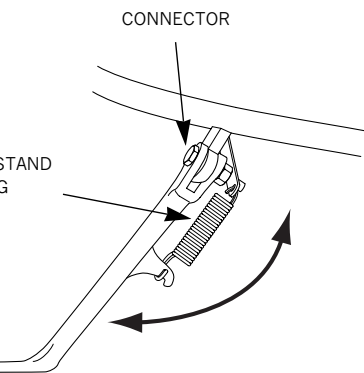
Fuse A	30A	Charging, combi S/W, regulator
Fuse B	15A	Winker relay, meter lighting, horn, headlight (LO/HI), front/rear stop switch, taillight, fuel meter
Fuse C	15A	Ignition coil, Ecu O2 sensor
Fuse D	15A	Ecu, Fuel pump relay

⚠ CAUTION

- Do not use screw driver or other metal parts to remove the fuse, as short circuit can be occurred to cause damage to electric system.
- Do not use a fuse having a larger voltage, as the wire can become overheated and damaged.
- When replacing any of the electrical parts (lights and gauges), be sure to replace them with the recommended parts. Using different parts can lead to the fuses burning out or damage to the battery.
- When washing the vehicle, take special care not to allow to be splashed in the area of the fuses.

E STAND

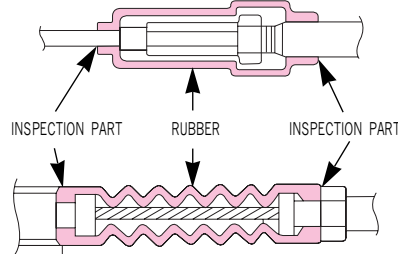
ect main stand and place vehicle in
right position on level ground.
eck side stand spring for signs of
amage and lubrication state on joints.



CABLE RUBBER PART

A rubber part is assembled on the cable to protect the inner cable.

Make sure that this part is placed firmly around the correct part of the cable. When washing the car, do not directly spray water on to the rubber part is dirty, use a dry cloth to clean this area.

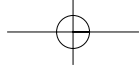


CAUTION

- Infiltration of the foreign materials or water caused by damage of lever(disengagement, tearing, etc.) may cause freezing in winter season resulting in faulty operation, sudden accelation and braking force decrease. If any damage is found, replace with the new on immediately.

NOTABLES FOR CAR WASHING

- Make sure to stop the engine prior to car washing.
- Be careful not to allow water to enter the muffler during the washing.
Water inside the muffler may cause an improper engine starting or rust occurrence.
- Do not let water get inside the braking system during the washing, as water inside the brake system may weaken the braking power. Upon completion of washing, select a safe place where there is no traffic obstruction, and start the vehicle. Lightly apply the brake while driving at a slow speed and check the braking power. If the braking power has been weakened, apply brake lightly while driving at a slow speed to dry up the brake system.
- Take precautions when waxing the vehicle.
Excessive polish of the painted section and/or the resin part with compound wax might damage the painted section causing discoloration of the affected area.



GENERAL CLEANING

To preserve the finish of metal parts and paintwork, wash and clean your motorcycle at regular intervals, anyway according to the road conditions you ride.

Especially during winter period through road salt a continuous cleaning of the motorcycle is necessary so that remove the road salt. Use specific products only. Avoid aggressive detergents or solvents.

<IMPORTANT>

- Do not wash your motorcycle right after use. When the motorcycle is still hot, water drops will evaporate faster and spot hot surfaces.
- Do not use high pressure water jets. Never aim the nozzle direct at wheel bearings, front fork seals, electric items, air inlets or exhaust pipe ends.
- Clean off stubborn dirt or exceeding grease from engine parts using a degreasing agent.
Be sure to avoid contact with drive parts (chain, sprockets, etc)
Rinse with warm water and dry all surfaces with chamois leather.

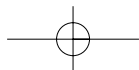
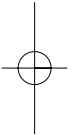
STORAGE GUIDE

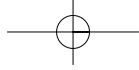
Extended storage, such as for winter, requires that you take certain steps to reduce the effects of deterioration from non-use of the motorcycle.

In addition, necessary repairs should be made BEFORE storing the motorcycle; otherwise, these repairs may be forgotten by the time the motorcycle is removed from storage.

<STORAGE>

- Empty the fuel tank into an approved gasoline container using a commercially available hand siphon or an equivalent method.
- If storage will last more than one month, carburetor draining is very important, to assure proper performance after storage.





STORAGE GUIDE

⚠ CAUTION

Gasoline is extremely flammable and is explosive under certain conditions. Perform this operation in a well-ventilated area with the engine stopped. Do not smoke or allow flames or sparks in the area where gasoline is drained or stored and where the fuel tank is refueled.

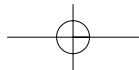
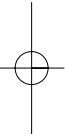
Remove the battery. Store in an area protected from freezing temperatures and direct sunlight.

Recharge the battery once a month. Wash and dry the motorcycle. Wax all painted surfaces.

Inflate the tires to their recommended pressures. Place the motorcycle on stands to raise both tires off the ground. Cover the motorcycle (don't use plastic or other coated materials) and store in a dry, unheated area, free of dampness with a minimum of daily temperature variation. Do not store the motorcycle in direct sunlight.

<REMOVAL FROM STORAGE>

- Uncover and clean the motorcycle.
- Charge the battery as required. Install the battery.
- Perform all Self Inspections Before Operation checks (page 22).
Test ride the motorcycle at low speeds in a safe riding area away from traffic.



SAFE DRIVING

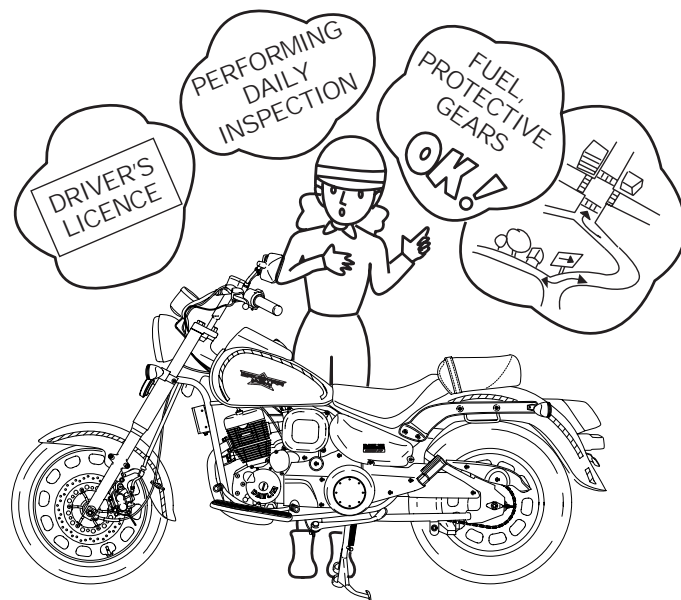
PREPARATION BEFORE DRIVING

Performing daily inspection

Putting on the protective gears (Helmet, glove, goggles, etc.)

Bringing the driver's licence

Determinating the path to the desired destination



DRIVING METHOD

DRIVING POSITION

Appropriate driving position is most important thing to riding safely.

Eyes : Look at the front direction widely.

Shoulders : Relieve the tension.

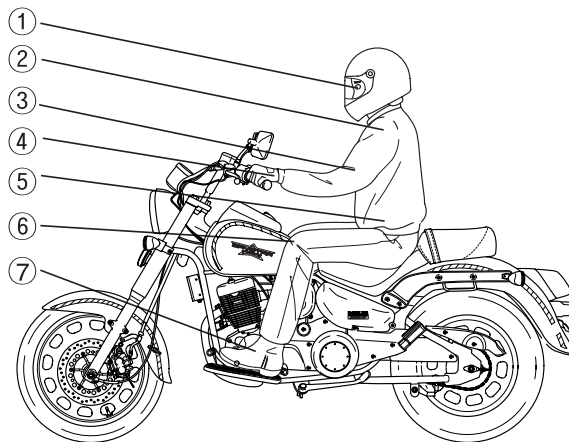
Arms : Relieve the tension and bend arms to inside and let them act as the spring.

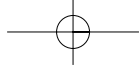
Hands : Grip the handle the position away from the inside end of the handle with distance of one finger to facilitate the operation of the switch and lever.

Wrist : Keep the state to act freely without applying excessive force to the shoulder and arms.

Knees : Press the fuel tank slightly.

Feet : Place the feet to face the front parallel and make the step bar be placed in the center of feet.

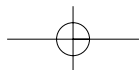
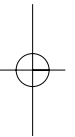




CAUTION WHEN DRIVING

Secure the safe distance.
Drive protectively.
Do not obstruct the traffic.
Do not drive on the pedestrian way or walkway.
Drive on the left driveway when passing away.
Make sure that you can apply the brake anytime.
Always apply the brake when stopping temporarily.
Do not drive excessively long distance and take enough break.

- If any abnormality is found, stop driving and contact service center to inspect the vehicle.
- Restart the vehicle after 2~3 min when it is turned over.
- Always turn on the headlight at night.



STARTING

Before starting always look around to avoid accident.

Get on the vehicle after pulling back the stand.

Start driving slowly after turning on the winker and releasing the brake while ensuring the safety around the vehicle.

CAUTION

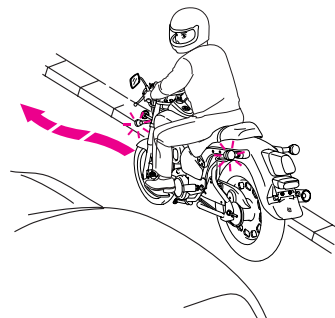
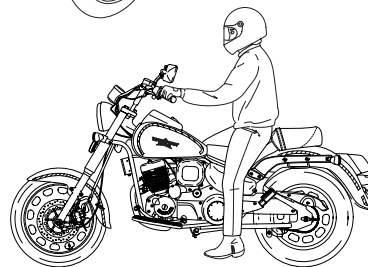
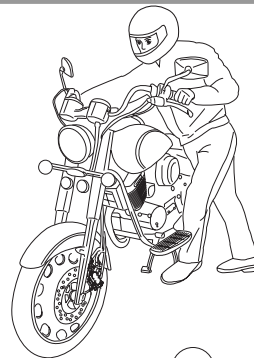
Return the side stand to its original position, keep driving without doing this may cause turnover accident.

Drive the vehicle only on the driveway. Driving on the walkway can cause accident. Also, if the wheel is transformed when advancing directly to the walkway, the vehicle can be overturned resulting in injury of the driver due to the driving instability.

Overspeed driving on the unpaved road can cause the vehicle to be overturned resulting in injury of the driver due to the driving instability.

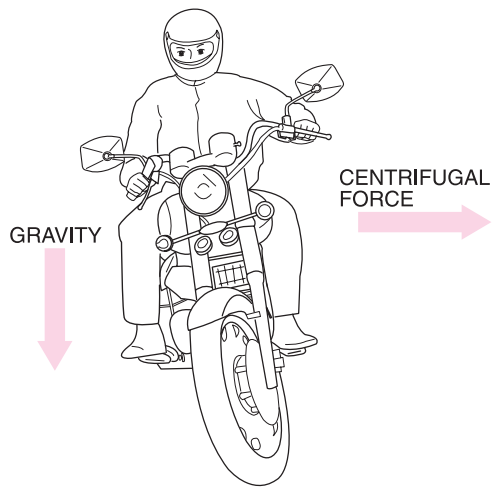
Do not drive in the gravel road. If any gravel enters the wheel or engine case, the vehicle can be overturned resulting in injury of the driver.

If possible, do not drive close to the sea or on the road where calcium chloride is treated. The muffler, external parts and welded parts can be corroded rapidly, and also in case of damage of the frame, the vehicle can be overturned resulting in injury of the driver.



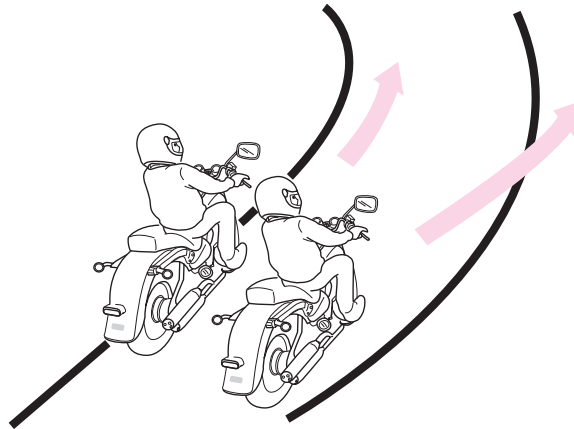
TURNING METHOD

PRINCIPLE OF TURN



The basic principle of turn is balancing using the centrifugal force which makes vehicle go outside and the gravity which makes vehicle fall inside.

EFFECT OF SPEED



The centrifugal force increases in inverse proportion to the radius of a curve and in proportion to the square speed. Decelerate prior to entering the curved way to reduce the centrifugal force.

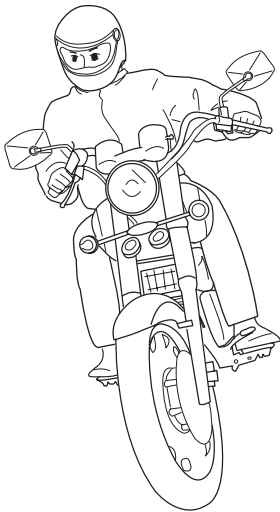
POSITIONS OF TURNING

The basic principle of turn is balancing using combined force of centrifugal force and the gravity.

3 positions require straightening the head and keeping the body horizontally.

LEAN-WITH >

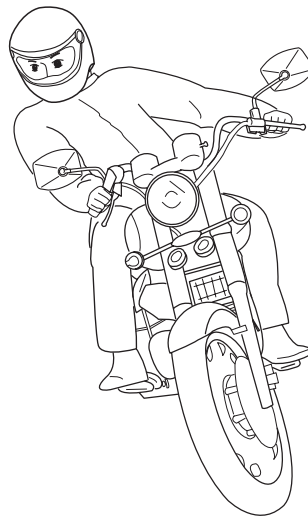
This is a turning position with motorcycle and driver in a line. This position is the most natural and exact, so driver must learn it thoroughly.



< LEAN-IN >

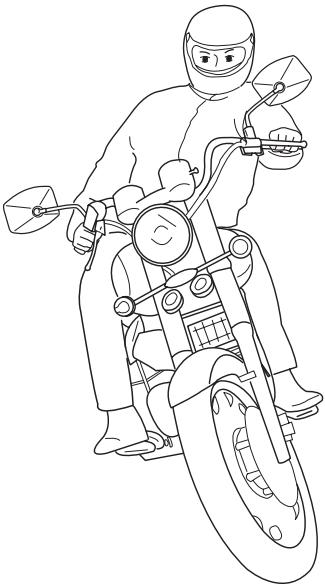
This is a turning position with driver leaned inside more than the motorcycle. This position is adequate to drive on the rained or slippery road because it has best road holding.

However, special attention is required because the front visual field is poor when the driver leans inside more than the motorcycle.

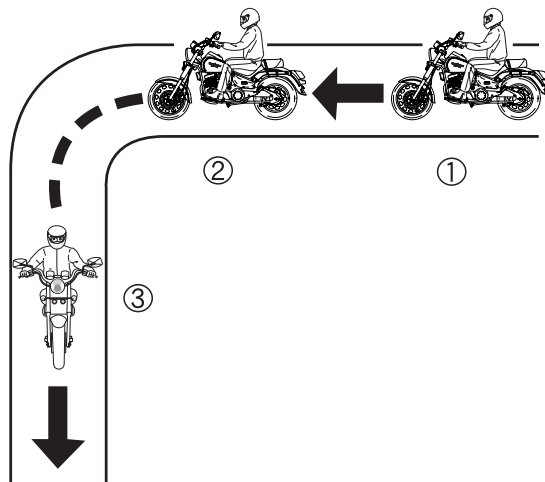


LEAN-OUT >

is a turning position with motorcycle leaned inside more than driver, which is opposite to the lean-in position. In this position, quick turn is well performed and driver can gain wide front visual field adequate to drive on the rained or slippery road because it has best road holding. However, special attention is required because there is danger of slipping on the holding road.



TURNING METHOD



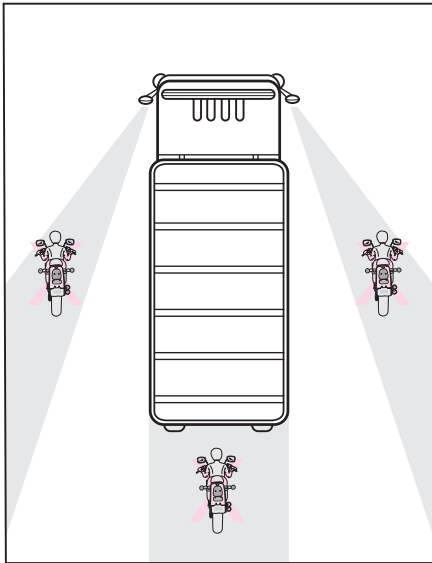
- ① Turn the throttle grip to its original position and decelerate using both front and rear brakes.
- ② Lean the vehicle toward inside of turn circle while driving slowly at constant speed.
- ③ Accelerate gradually.

CAUTION WHEN TURNING

Do not drive inside of large truck's turn circle.

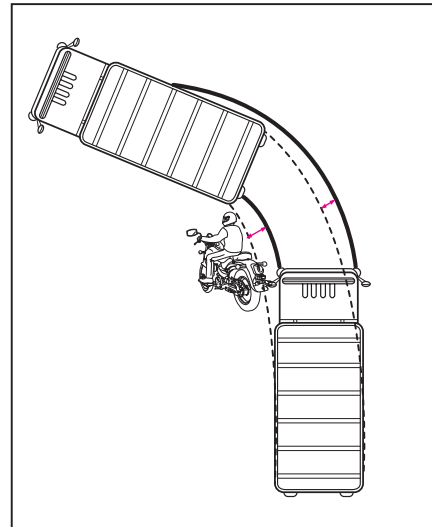
< DEAD ANGLE ZONE >

Dead angle zone is the sight range which cannot be identified by the driver and increases in proportion to the width of the motorcycle.



< DISTANCE BETWEEN THE FRONT AND REAR WHEEL TURN >

It is the distance between the path of the front and rear wheel, and it increases in proportion to the length of the motorcycle.

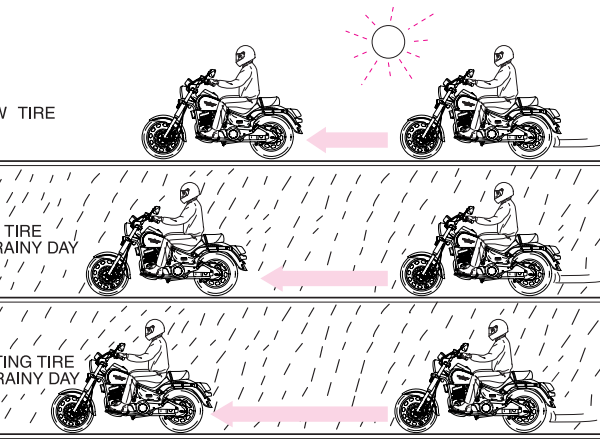


BRAKING METHOD

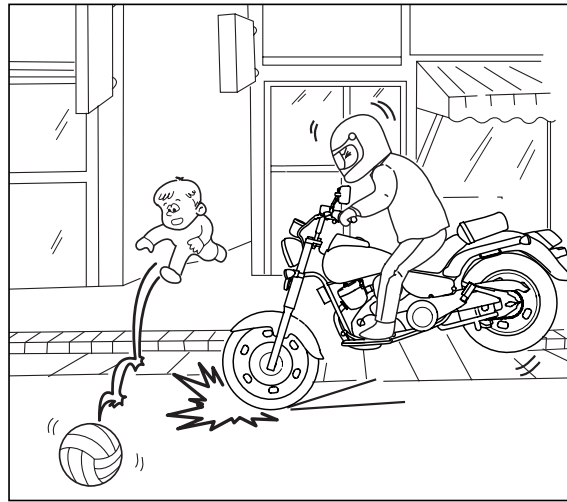
BASIC PRINCIPLE OF BRAKE (FRICTION FORCE)

Vehicle is braked using friction between road surface and tires.

Braking distance increases 1.5 times on wet road and 3 times on icy road because friction force of road surface is decreased.



RESTRAINT OF BRAKE EFFECT (INERTIA)



Due to the inertia, motorcycle does not stop immediately after applying the brake.

BRAKING METHOD

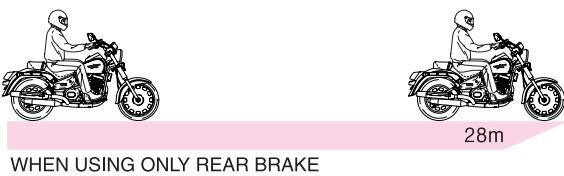
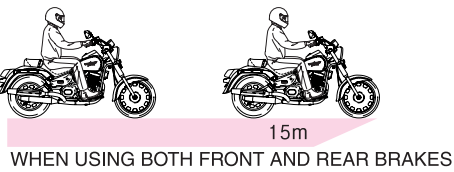
Turn the throttle grip to its original position and decelerate using the engine brake.

Erect the motorcycle straight.

Brake using both front and rear brakes.

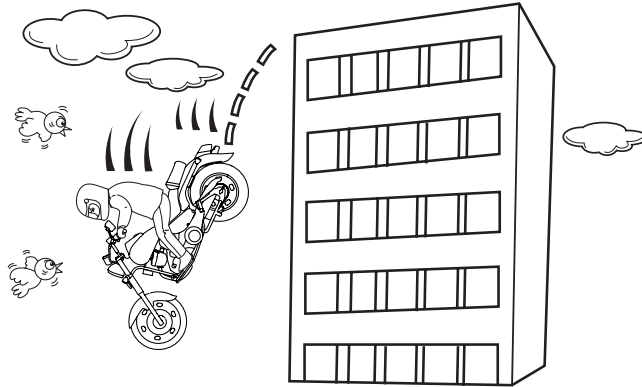
COMPARISON OF BRAKING DISTANCE

Vehicle speed : 50 km/h

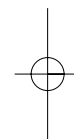


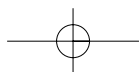
IMPACT WHEN COLLISION

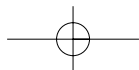
Learn the proper braking method to prevent accident.

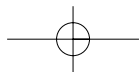


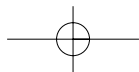
Impact increases in proportion to the speed and weight. The impact when collision to concrete wall at 50 km/h is same as one when falling from the height of 10m.

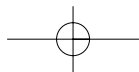


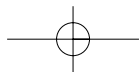


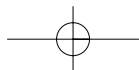


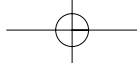












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